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1 Approximating optimal spare capacity allocation by successive survivable routing
Yu Liu, David Tipper, Peerapon Siripongwutikorn
February 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 1

Full text available: 📄 pdf(1.27 MB)   Additional Information: full citation, abstract, references, index terms

The design of survivable mesh based communication networks has received considerable attention in recent years. One task is to route backup paths and allocate spare capacity in the network to guarantee seamless communications services survivable to a set of failure scenarios. This is a complex multi-constraint optimization problem, called the spare capacity allocation (SCA) problem. This paper unravels the SCA problem structure using a matrix-based model, and develops a fast and efficient approx ...

Keywords: MPLS traffic engineering, multi-commodity flow, network planning and optimization, network survivability, protection and restoration, spare capacity allocation, survivable routing

2 Analog design and evaluation: Effects of noise and nonlinearity on the calibration of a non-binary capacitor array in a successive approximation analog-to-digital converter
Jianhua Gan, Shouli Yan, Jacob Abraham
January 2004

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Additional Information: full citation, abstract, references

A successive approximation analog-to-digital converter using a non-binary capacitor array is presented. A perceptron learning rule is used as the capacitor calibration algorithm. The nonlinearity is analyzed using the Volterra series. The effects of noise and nonlinearity are modeled to verify the calibration robustness. With the presence of noise and nonlinearity, the capacitor weights are adaptively calibrated to match the physical capacitors with better than 22-bit accuracy. The accuracy is n ...

3 VLSI design: Design and modeling of a 16-bit 1.5MSPS successive approximation ADC with non-binary capacitor array
Jianhua Gan, Shouli Yan, Jacob Abraham
April 2003 **Proceedings of the 13th ACM Great Lakes symposium on VLSI**

Full text available: 📄 pdf(125.17 KB)   Additional Information: full citation, abstract, references, index terms

The design and modeling of a high performance successive approximation analog-to-digital converter (ADC) using non-binary capacitor array are presented in this paper. A non-binary capacitor array with 20 capacitors is used to design a 16-bit, 1.5 mega samples per second (MSPS) successive approximation ADC. A perceptron learning rule, originally developed for Artificial Intelligence applications, is used as the capacitor calibration algorithm. The system architecture and the circuit design for th ...

Keywords: analog-to-digital converter, calibration, non-binary capacitor array, successive approximation

4 Using regular approximations for generalisation during partial evalution
John P. Gallagher, Julio C. Peralta
November 1999 **ACM SIGPLAN Notices , Proceedings of the 2000 ACM SIGPLAN workshop on Partial evaluation and semantics-based program manipulation**, Volume 34 Issue 11

Full text available: pdf(1.51 MB)   Additional Information: full citation, abstract, references, citings, index terms

On-line partial evaluation algorithms include a generalisation step, which is needed to ensure termination. In partial evaluation of logic and functional programs, the usual generalisation operation applied to computation states is the most specific generalisation (*msg*) of expressions. This can cause loss of information, which is especially serious in programs whose computations first build some internal data structure, which is then used to control a subsequent phase of execution - a ...

5 Lattice Approximations to the Minima of Functions of Several Variables
Gerald Berman
April 1969 **Journal of the ACM (JACM)**, Volume 16 Issue 2

Full text available: pdf(509.50 KB)   Additional Information: full citation, abstract, references, index terms

A computer-oriented method is developed for determining relative minima of functions of several variables. No derivatives (or approximations) are required and the process always converges to a relative minimum no matter which initial point is used. Numerical examples using test functions suggested in the literature are included to illustrate the effectiveness of the algorithms. Modifications can easily be incorporated which permit the inclusion of constraints or integer-valued variables.

6 Approximation algorithms for NP-complete problems on planar graphs
Brenda S. Baker
January 1994 **Journal of the ACM (JACM)**, Volume 41 Issue 1

Full text available: pdf(1.98 MB)   Additional Information: full citation, references, citings, index terms

Keywords: Hamiltonian circuit, Hamiltonian path, NP-complete, approximation algorithms, approximation schemes, dominating set, independent set, partition into perfect matchings, partition into triangles, planar graphs, vertex cover

7 Algorithm 458: discrete linear L1 approximation by interval linear programming
P. D. Robers, S. S. Robers
October 1973 **Communications of the ACM**, Volume 16 Issue 10

Full text available: pdf(928.54 KB)   Additional Information: full citation, references

Keywords: L, approximation, discrete approximation

8 Using randomized sparsification to approximate minimum cuts

David R. Karger

January 1994 **Proceedings of the fifth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.06 MB)   Additional Information: full citation, references, citings, index terms

9 Parallel Multilevel Sparse Approximate Inverse Preconditioners in Large Sparse Matrix Computations

Kai Wang, Jun Zhang, Chi Shen

November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**

Full text available: pdf(226.50 KB)   Additional Information: full citation, abstract

We investigate the use of the multistep successive preconditioning strategies (MSP) to construct a class of parallel multilevel sparse approximate inverse (SAI) preconditioners. We do not use independent set ordering, but a diagonal dominance based matrix permutation to build a multilevel structure. The purpose of introducing multilevel structure into SAI is to enhance the robustness of SAI for solving difficult problems. Forward and backward preconditioning iteration and two Schur complement pr ...

Keywords: Parallel preconditioning, sparse approximate inverse, multilevel pre-conditioning

10 Reaching approximate agreement in the presence of faults

Danny Dolev, Nancy A. Lynch, Shlomit S. Pinter, Eugene W. Stark, William E. Weihl

May 1986 **Journal of the ACM (JACM)**, Volume 33 Issue 3

Full text available: pdf(1.47 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

This paper considers a variant of the Byzantine Generals problem, in which processes start with arbitrary real values rather than Boolean values or values from some bounded range, and in which approximate, rather than exact, agreement is the desired goal. Algorithms are presented to reach approximate agreement in asynchronous, as well as synchronous systems. The asynchronous agreement algorithm is an interesting contrast to a result of Fischer et al, who show that exact agreement with guara ...

11 Analysis methodology: On-line error bounds for steady-state approximations: a potential solution to the initialization bias problem

Enver Yücesan, Luk N. Van Wassenhove, Klenthis Papanikas, Nico M. van Dijk

December 2001 **Proceedings of the 33nd conference on Winter simulation**

Full text available: pdf(274.24 KB)   Additional Information: full citation, abstract, references, index terms

By studying performance measures via reward structures, on-line error bounds are obtained by successive approximation. These bounds indicate when to terminate computation with guaranteed accuracy; hence, they provide insight into steady-state convergence. The method therefore presents a viable alternative to steady-state computer simulation where the output series is typically contaminated with initialization bias whose impact on the output cannot be easily quantified. The method is illustrated ...

12 <u>Successive approximations and computer storage problems in ordinary differential</u>
<u>equations</u>
Richard Bellman
May 1961 **Communications of the ACM**, Volume 4 Issue 5

Full text available: <u>pdf(200.53 KB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

13 <u>Solving minimum-cost flow problems by successive approximation</u>
A. Goldberg, R. Tarjan
January 1987 **Proceedings of the nineteenth annual ACM conference on Theory of**
computing

Full text available: <u>pdf(1.35 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>

We introduce a framework for solving minimum-cost flow problems. Our approach
measures the quality of a solution by the amount that the complementary slackness
conditions are violated. We show how to extend techniques developed for the maximum
flow problem to improve the quality of a solution. This framework allows us to achieve
&Ogr;(min(n3, n5/3 m2/3, ...

14 <u>A general framework for semantics-based bottom-up abstract interpretation of logic</u>
<u>programs</u>
Roberto Barbuti, Roberto Giacobazzi, Giorgio Levi
January 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 15 Issue 1

Full text available: <u>pdf(2.99 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>, <u>review</u>

The theory of abstract interpretation provides a formal framework to develop advanced
dataflow analysis tools. The idea is to define a nonstandard semantics which is able to
compute, in finite time, an approximated model of the program. In this paper, we define an
abstract interpretation framework based on a fixpoint approach to the semantics. This leads
to the definition, by means of a suitable set of operators, of an abstract fixpoint
characterization of a model associated with the progra ...

Keywords: abstract interpretation, logic programming, program analysis

15 <u>Best approximate circles on integer grids</u>
M. D. McIlroy
October 1983 **ACM Transactions on Graphics (TOG)**, Volume 2 Issue 4

Full text available: <u>pdf(1.34 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

16 <u>Session 11B: Efficient sequences of trials</u>
Edith Cohen, Amos Fiat, Haim Kaplan
January 2003 **Proceedings of the fourteenth annual ACM-SIAM symposium on Discrete**
algorithms

Full text available: <u>pdf(873.28 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>

We introduce a problem called *sequential trial optimization*, a generalization of the well
studied set cover problem with a new objective function. We give a simple algorithm that
achieves a constant factor approximation to this problem. Sequential trial optimization
naturally arises in heterogenous search environments such as peer to peer networks.

17 Suspension analyses for concurrent logic programs

Michael Codish, Moreno Falaschi, Kim Marriott

May 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 16 Issue 3

Full text available: pdf(2.26 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Concurrent logic languages specify reactive systems which consist of collections of communicating processes. The presence of unintended suspended computations is a common programming error which is difficult to detect using standard debugging and testing techniques. We develop a number of analyses, based on abstract interpretation, which succeed if a program is definitely suspension free. If an analysis fails, the program may, or may not, be suspension free. Examples demonstrate that the an ...

Keywords: abstract interpretation, concurrent logic programming, program analysis

18 Data structures for quadtree approximation and compression

Hanan Samet

September 1985 **Communications of the ACM**, Volume 28 Issue 9

Full text available: pdf(1.86 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A number of data structures for representing images by quadtrees without pointers are discussed. The image is treated as a collection of leaf nodes. Each leaf node is represented by use of a locational code corresponding to a sequence of directional codes that locate the leaf along a path from the root of the tree. Somewhat related is the concept of a forest which is a representation that consists of a collection of maximal blocks. It is reviewed and refined to enable the representation of ...

19 An analysis of oblivious and adaptive routing in optical networks with wavelength translation

Jonathan P. Lang, Vishal Sharma, Emmanouel A. Varvarigos

August 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 4

Full text available: pdf(377.54 KB)   Additional Information: full citation, abstract, references, index terms

We present an analysis for both oblivious and adaptive routing in regular, all-optical networks with wavelength translation. Our approach is simple, computationally inexpensive, accurate for both low and high network loads, and the first to analyze adaptive routing with wavelength translation in wavelength division multiplexed (WDM) networks while also providing a simpler formulation of oblivious routing with wavelength translation. Unlike some previous analyses which use the link independence b ...

Keywords: Adaptive routing, all-optical networks, hypercube, multi-fiber networks, oblivious routing, performance analysis, torus, wavelength division multiplexing, wavelength translation

20 Improved approximation algorithms for the multi-commodity flow problem and local competitive routing in dynamic networks

Baruch Awerbuch, Tom Leighton

May 1994 **Proceedings of the twenty-sixth annual ACM symposium on Theory of computing**

Full text available: pdf(909.75 KB)   Additional Information: full citation, references, citings, index terms

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IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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Barnes, C.F.;
Image Processing, 1994. Proceedings. ICIP-94., IEEE International Conference
Volume 3, 13-16 Nov. 1994 Page(s):876 - 880 vol.3

AbstractPlus | Full Text: PDF(424 KB)   IEEE CNF

☐ 2. **Parallelization model for successive approximations to the Rayleigh-Ritz linear v problem**
Greer, J.C.;
Parallel and Distributed Systems, IEEE Transactions on
Volume 9, Issue 10, Oct. 1998 Page(s):938 - 946

AbstractPlus | References | Full Text: PDF(432 KB)   IEEE JNL

☐ 3. **Convergent algorithms for successive approximation vector quantisation with ar wavelet image compression**
Craizer, M.; da Silva, E.A.B.; Ramos, E.G.;
Vision, Image and Signal Processing, IEE Proceedings-
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9-12 May 1993 Page(s):28.2.1 - 28.2.4

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7. **Image coding using successive approximation wavelet vector quantization**
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Circuits and Systems, 1993., ISCAS '93, 1993 IEEE International Symposium on
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Kaup, A.; Aach, T.;
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Hamdy, N.; Soliman, H.;
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